



Ministry  
of the  
Environment

# **1987 TECHNOLOGY TRANSFER CONFERENCE**

## **ABSTRACTS**

**NOVEMBER 30 &  
DECEMBER 1, 1987**

**ROYAL YORK HOTEL  
TORONTO, ONTARIO, CANADA**

ABSB

### Copyright Provisions and Restrictions on Copying:

This Ontario Ministry of the Environment work is protected by Crown copyright (unless otherwise indicated), which is held by the Queen's Printer for Ontario. It may be reproduced for non-commercial purposes if credit is given and Crown copyright is acknowledged.

It may not be reproduced, in all or in part, for any commercial purpose except under a licence from the Queen's Printer for Ontario.

For information on reproducing Government of Ontario works, please contact ServiceOntario Publications at [copyright@ontario.ca](mailto:copyright@ontario.ca)

D12

ADVANCED MASS SPECTROMETRIC  
TECHNIQUES FOR THE IDENTIFICATION OF UNKNOWN  
ORGANIC COMPOUNDS. V.Y. Taguchi, E.J. Reiner,  
D.T. Wang and O. Meresz, Ministry of the  
Environment, Rexdale, Ontario.

Identification of unknown organic compounds by gas chromatography/mass spectrometry (GC/MS) usually involves comparison of the mass spectrum of the unknown to a reference library of mass spectra of known compounds. This technique of library searching is limited by the number of entries in the library and the capacity of the computer to assimilate and search larger libraries. Mass spectra that cannot be identified through this technique must be interpreted from first principles. Advanced mass spectrometric techniques that can aid in the interpretation include linked scanning, mass analyzed ion kinetic energy spectroscopy (MIKES) and accurate mass (empirical formula) determinations. These techniques will be explained and demonstrated on model compounds. Applications to environmental samples will be presented.



(6941)

TD/5/T43